

Annotation	Observed Genes	Genome	p value
muscle contraction	28	109	1.40906E-05
muscle development	27	120	1.40906E-05
striated muscle contraction	10	22	1.40906E-05
morphogenesis	40	1110	1.40906E-05
organogenesis	34	890	1.40906E-05
organ development	34	890	1.40906E-05
regulation of heart contraction rate	6	16	1.40906E-05
generation of precursor metabolites and energy	23	546	1.40906E-05
regulation of muscle contraction	6	22	1.40906E-05
circulation	9	97	5.65718E-05
regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolism	7	1896	5.65718E-05
regulation of transcription	7	1870	8.43952E-05
transcription, DNA-dependent	7	1862	8.43952E-05
transcription	8	1961	0.000112788
regulation of transcription, DNA-dependent	7	1806	0.000127168
regulation of metabolism	9	2029	0.000127168
regulation of organismal physiological process	8	87	0.000155324
nucleobase, nucleoside, nucleotide and nucleic acid metabolism	18	2949	0.000155324
response to unfolded protein	6	42	0.000155324
cellular process	123	10824	0.000184106
development	41	1746	0.000224867
heart development	4	20	0.000978001
cell surface receptor linked signal transduction	6	1415	0.00185476
electron transport	13	342	0.002311173
oxidative phosphorylation	6	76	0.002851244
G-protein coupled receptor protein signaling pathway	3	991	0.004211232
biopolymer metabolism	9	1602	0.007372488
primary metabolism	63	6223	0.007986521
cell proliferation	4	1054	0.007986521
protein folding	9	208	0.008395999
energy derivation by oxidation of organic compounds	7	131	0.009186686
signal transduction	22	2804	0.009186686
cellular morphogenesis	7	155	0.020040501
cell communication	31	3444	0.020858369
cellular catabolism	3	832	0.020858369
cell cycle	2	711	0.020858369
macromolecule catabolism	2	708	0.021927801
regulation of G-protein coupled receptor protein signaling pathway	3	23	0.021927801
negative regulation of angiogenesis	2	6	0.023052063
regulation of striated muscle contraction	2	6	0.023052063
cellular macromolecule catabolism	2	693	0.025991129
ubiquitin cycle	1	546	0.031745636
catabolism	4	905	0.031745636
regulation of cell growth	5	90	0.03337327
protein modification	10	1499	0.03337327